Name:

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Geometry, Period

Due Date: Mon, 9 Mar 2015

**Geometry**

**Homework**



**For each problem, follow these steps: (1) label the givens on the picture or draw & label a sketch if not no picture; (2) circle the side/angle you’re finding; (3) write the trig ratio or inverse ratio required; (4) solve.**

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| 1. In right triangle ABC shown below, the tangent of ∠B is . What is the measure of ∠B? Round your answer to the nearest hundredth of a degree. | | | | | 1. You lean a 16 foot ladder against the wall. If the ladder makes an angle of 70° with the ground, how far away from the wall is the base of the ladder? Round your answer to the nearest tenth of a foot. |
| 1. In the figure below, ABC is a right triangle with a right angle at C. Which of the statements about this figure is NOT correct? **Correct it.**   A  B  C  10  6  8    A  B  C  10  6  8   1. sin A = 2. cos A = 3. cos B = 4. tan A = 5. tan B =   **Correction: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | 1. In the figure below, ABC is a right triangle with a right angle at C. Find the measures of angles A & B using two different inverse trig functions. | | | | |
| 1. An angle in a right triangle has a measure .  If tan =, then = ? | 1. An angle in a right triangle has a measure .  If tan =, then **sin**= ? | | | | |
| ***What is different about the previous 2 questions?*** | | | | | |
| 1. If in a right triangle  and ,   then x = ? | | | 1. If in a right triangle  and ,   then ϴ = ? | | |
| 1. The shadow of a telephone pole is 20 feet long. You measure the angle of elevation from the end of the shadow to the top of the telephone pole to be 70 degrees. Which of the following would give you the height of the pole?   A.  B.  C.  D.  E. | | 1. A wheelchair access ramp has measures 15 feet long across its diagnoal and reaches a height of 5 feet. Which of the following would give you the angle of the incline of the ramp? | | | |
| 1. (a)     (b) What is the measure of angle A? | |  | | | |
| 1. In the right triangle shown below, what is the measure of angle A to the nearest degree? | | | | 1. In triangle ABC, and B is a right angle. What is the measure of angle C? | |